



# Building Automation at codecentric Headquarters

## A Look Behind the Scenes

Christina & Anna



@codecentric

# WHO ARE WE?



CHRISTINA  
🐦 merelyChristina

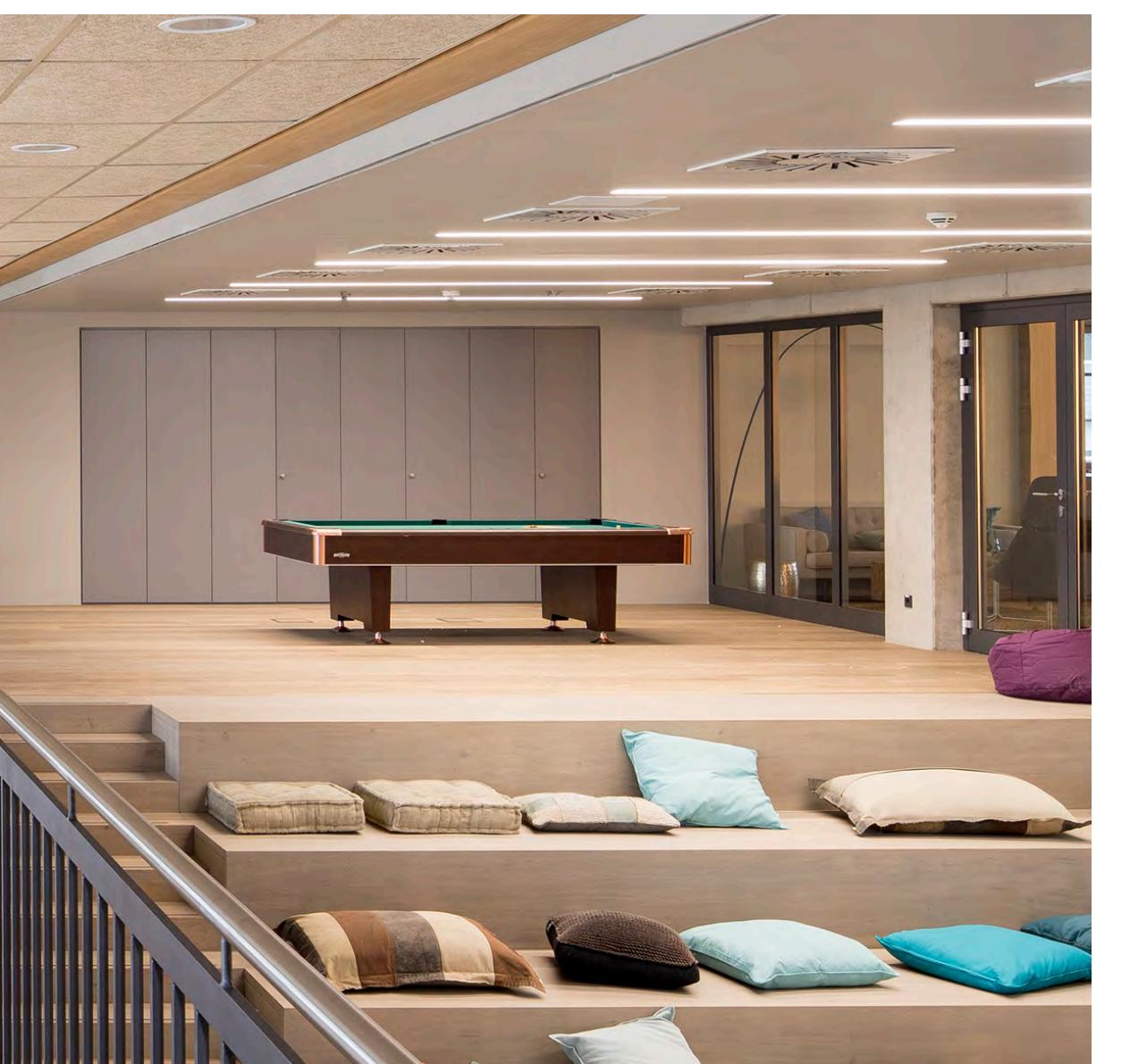
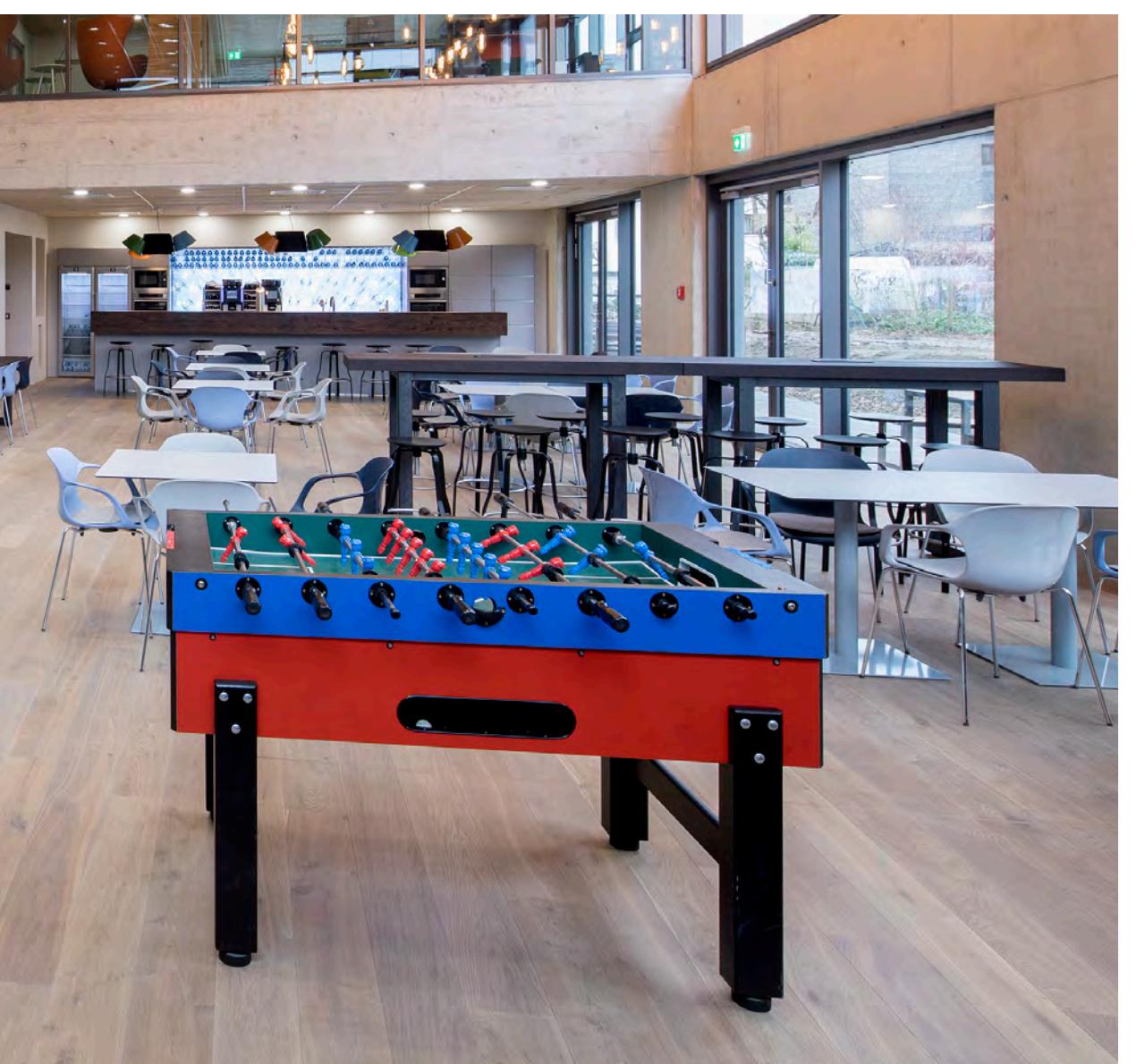


ANNA  
🐦 merelyAnna

# codecentric AG

## 10x in Germany





# WHY?



Laziness

# WHY?



Improvement

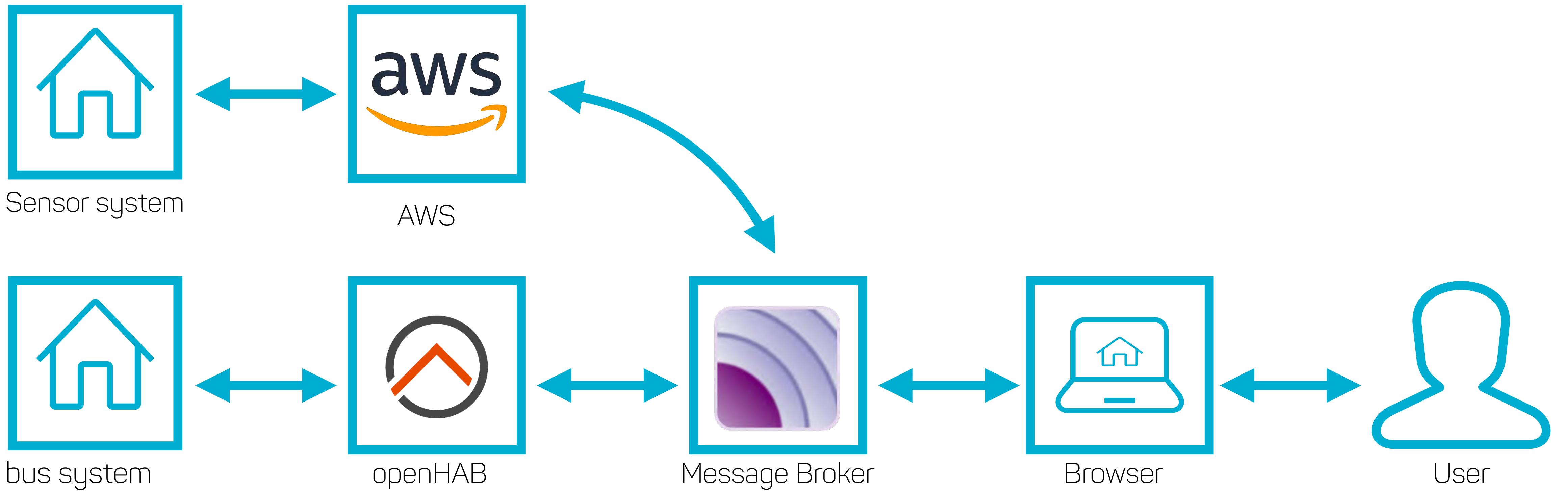


Security



Fun

# ARCHITECTURE



# BUS SYSTEM



heating, BacNet

window, KNX

shutters, KNX

lamps, KNX

...

# WHY KNX?

new building

standard

future-proof



sensor support

shutter controlling

lamp controlling

our electrician knows KNX

# WHY openHAB?

multi. Bindings

OpenSource

KNX independent



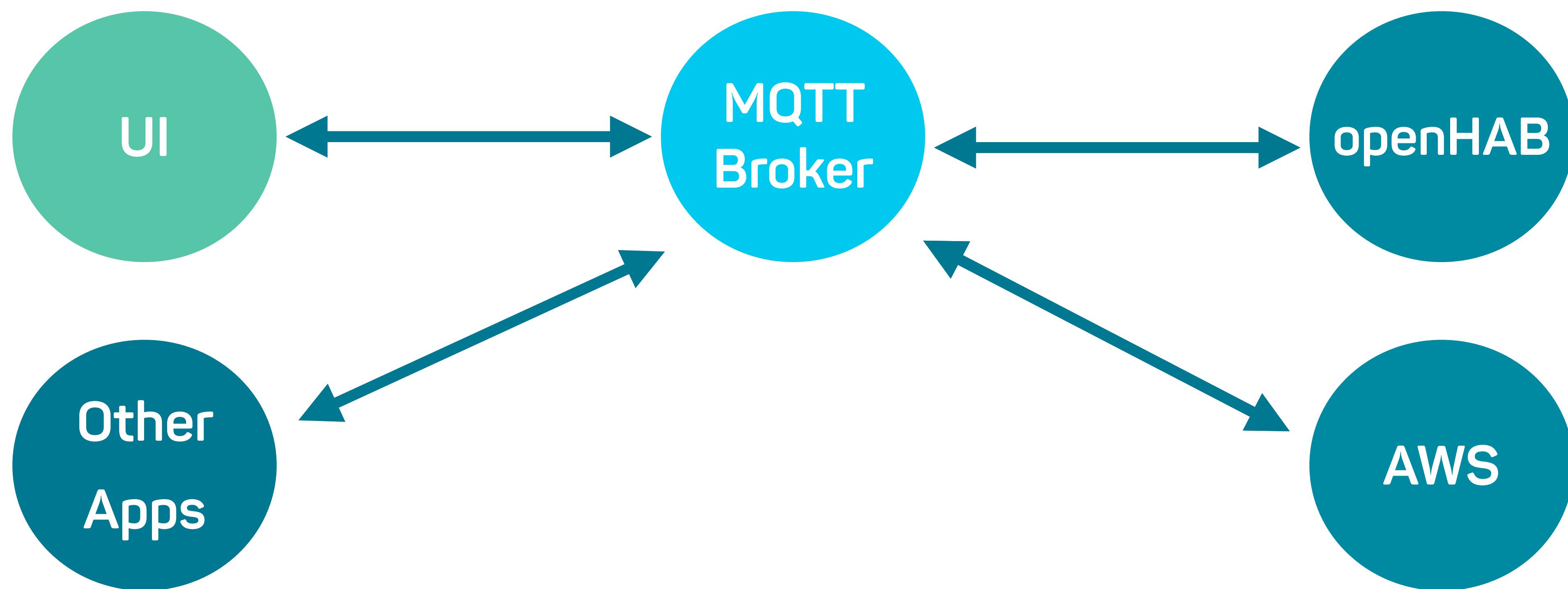
KNX, BacNet

UI-App

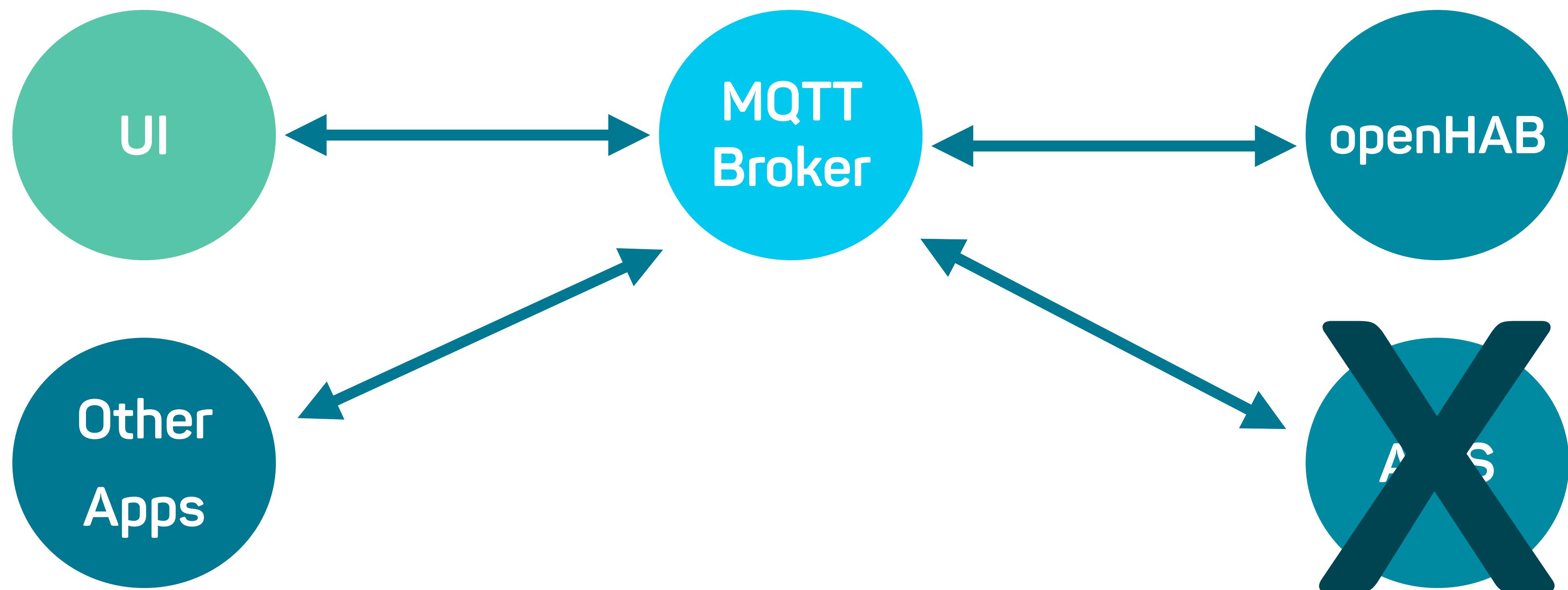
Rule Engine

MQTT

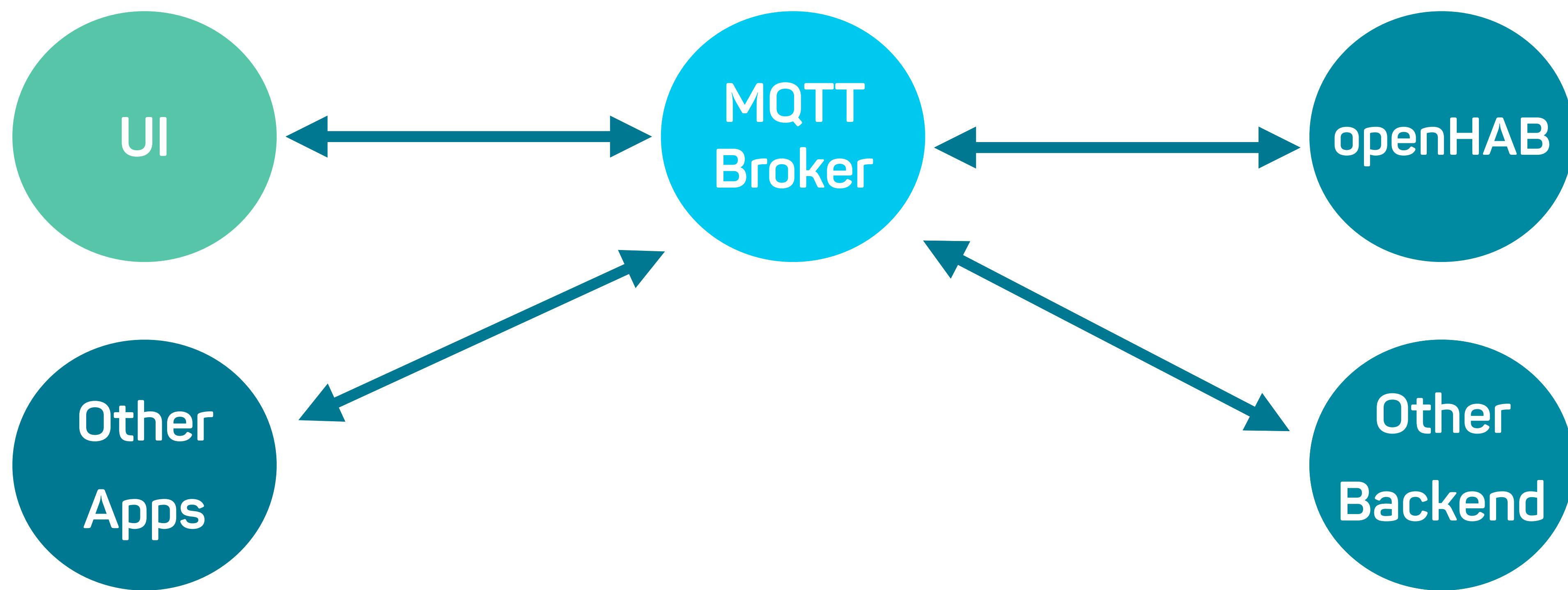
# WHY MQTT?



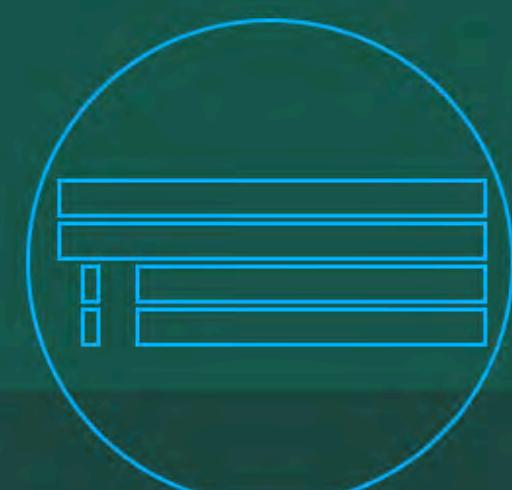
# WHY MQTT?



# WHY MQTT?



# SmartBuildingBoard



## Cafeteria

22.99



CAFETERIA\_DECKENLEUCHTE\_EINCA

Aus



CAFETERIA\_DECKENLEUCHTE\_MITTE

Aus



CAFETERIA\_DECKENLEUCHTE\_THEKE

Aus



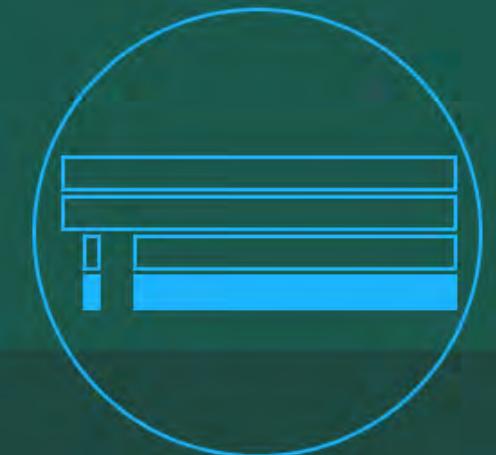
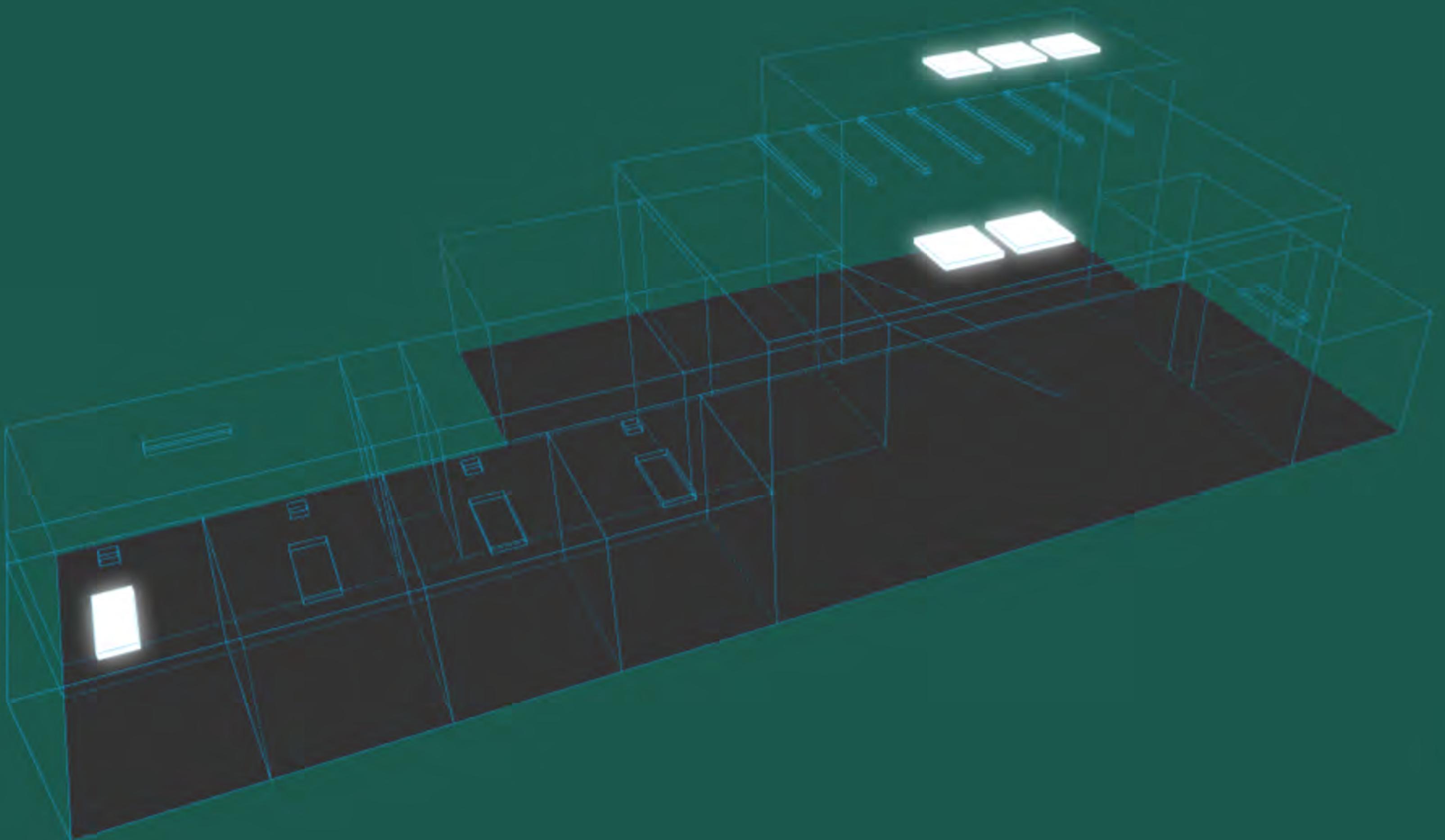
06.09.2018 11:40 - 12:40

Abstimmung Projekt XY



06.09.2018 12:40 - 13:40

Bewerbungsgespräch



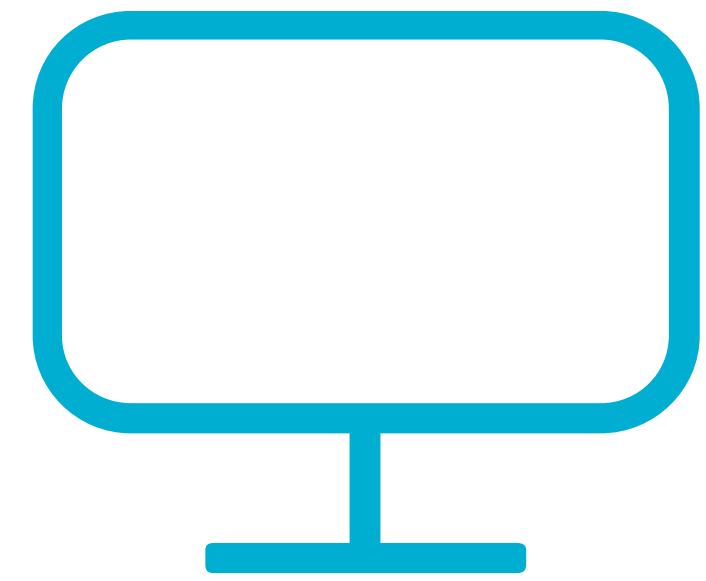
# SmartBuildingBoard



Accessible



Intuitive

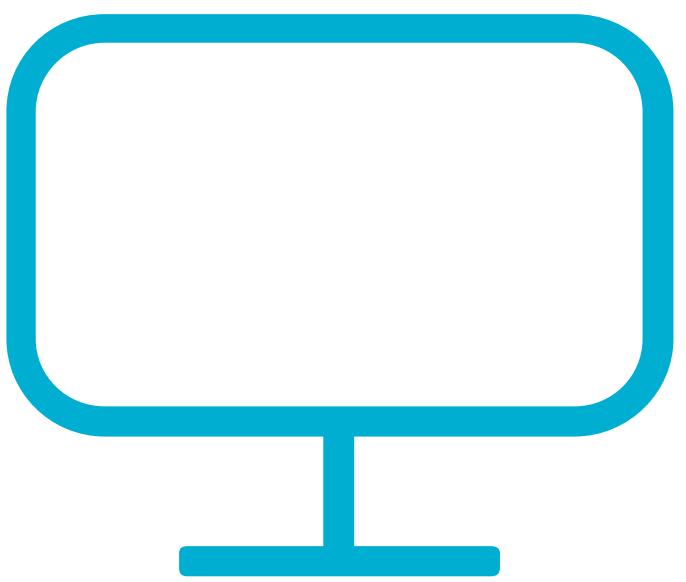


Clear

# ALTERNATIVES



Other  
Framework

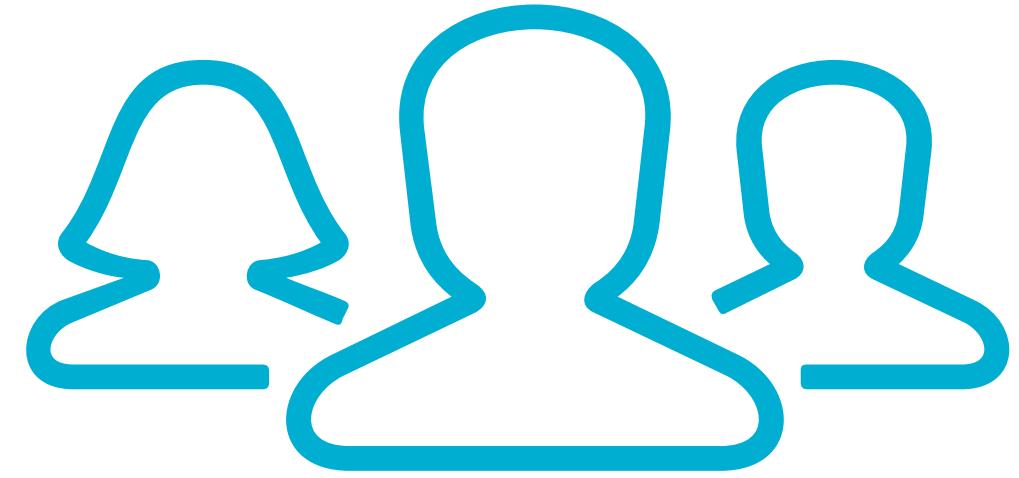


Commercial  
Solution



openHAB

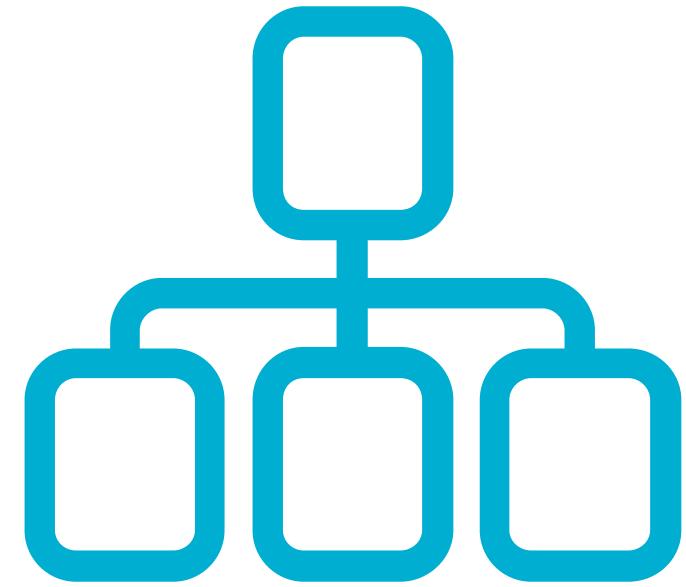
# SO WHY WRITE OUR OWN?



Hackathon

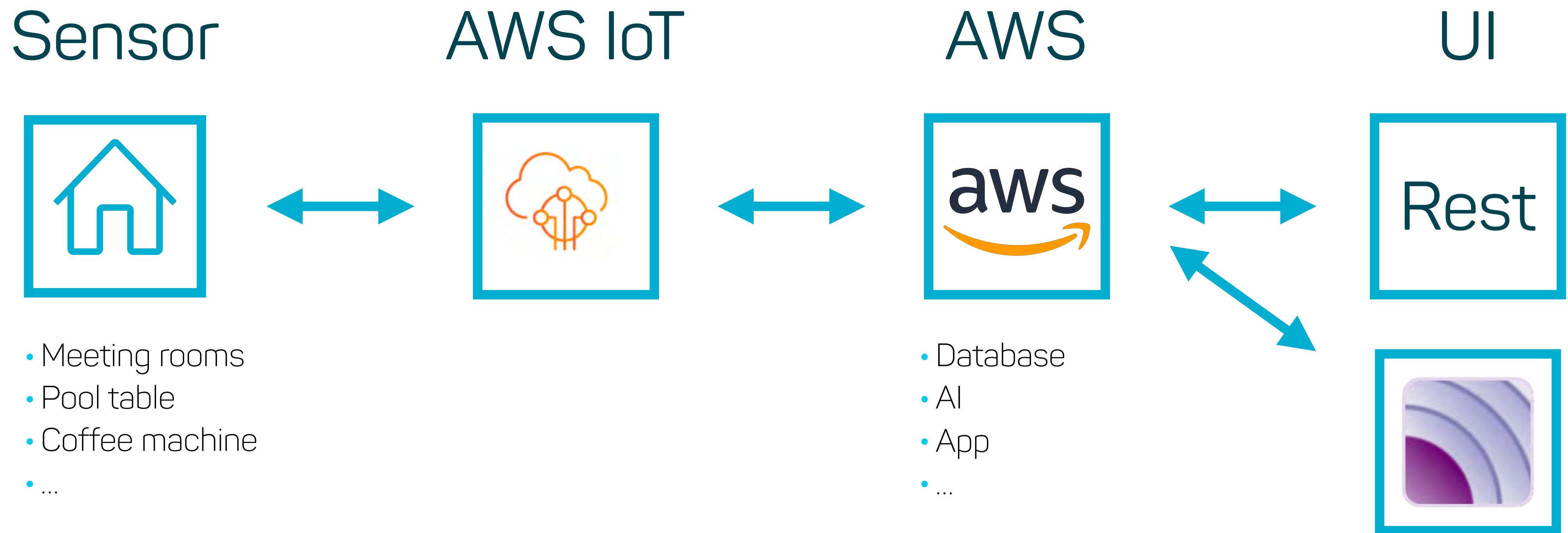


BabylonJS

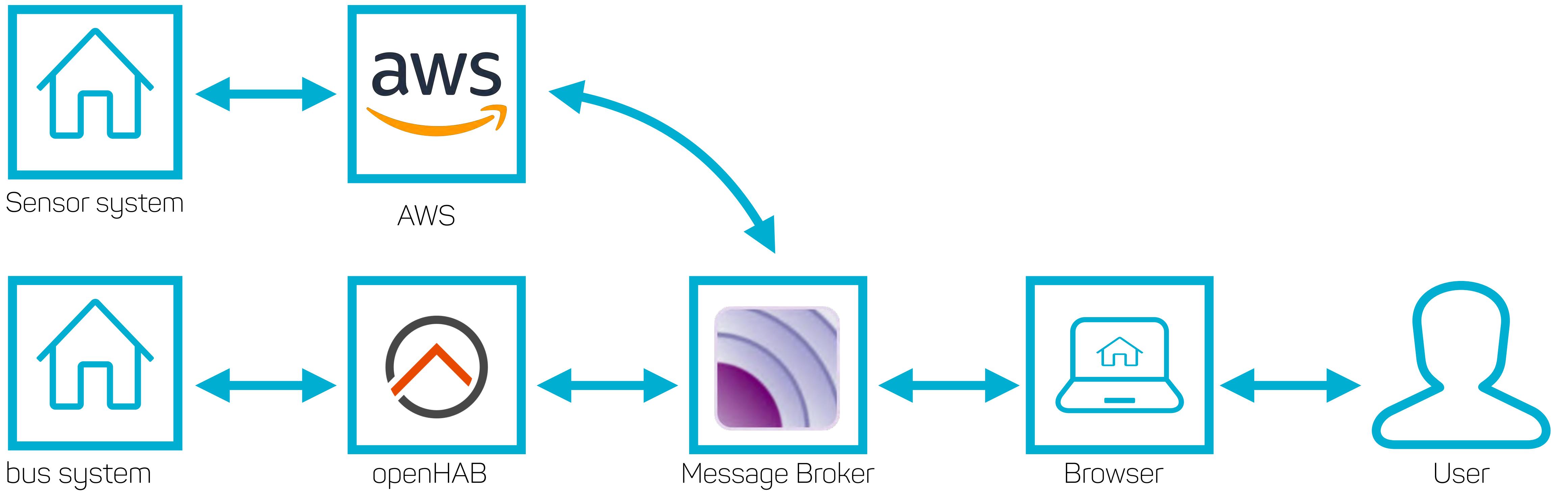


extensible

# WHAT ELSE?



# ARCHITECTURE



# LESSONS LEARNED?

isolation



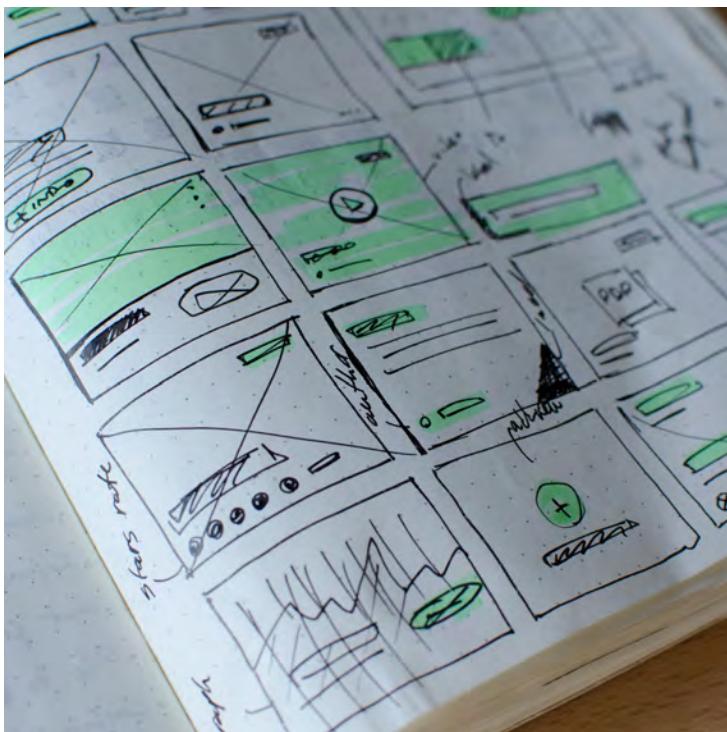
fallback



naming

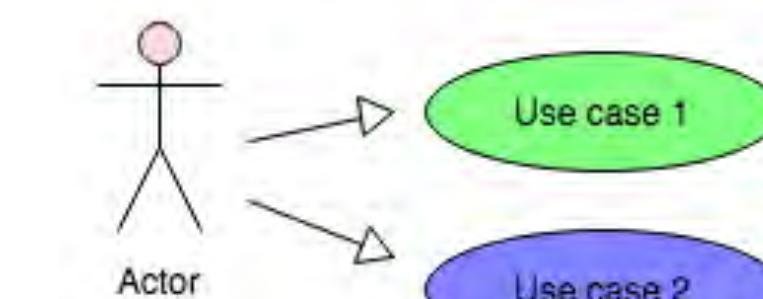


closed system

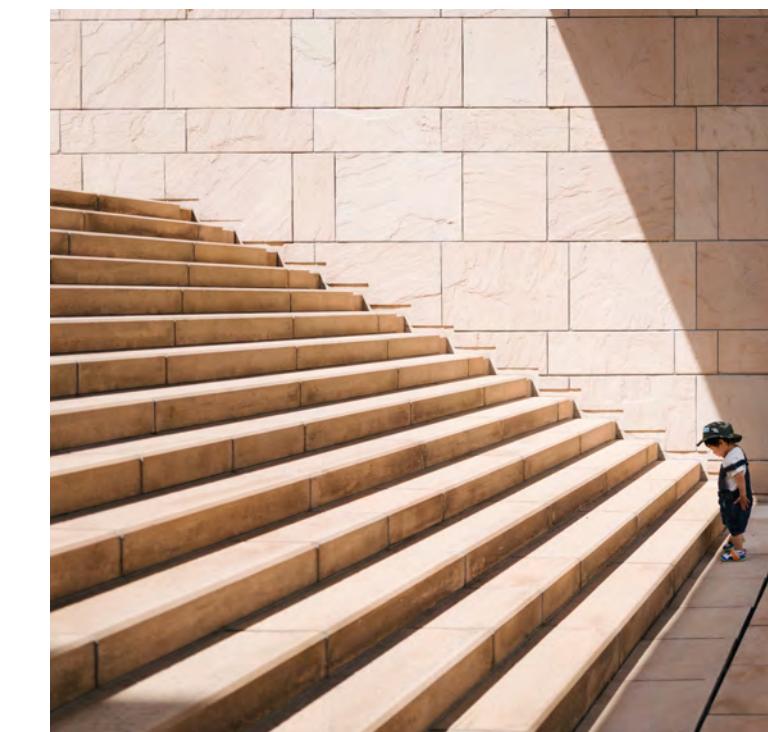


intuitive

extendable



use case



challenge

# Stay connected

Our mission – to promote agile development, innovation and technology – extends through everything we do.



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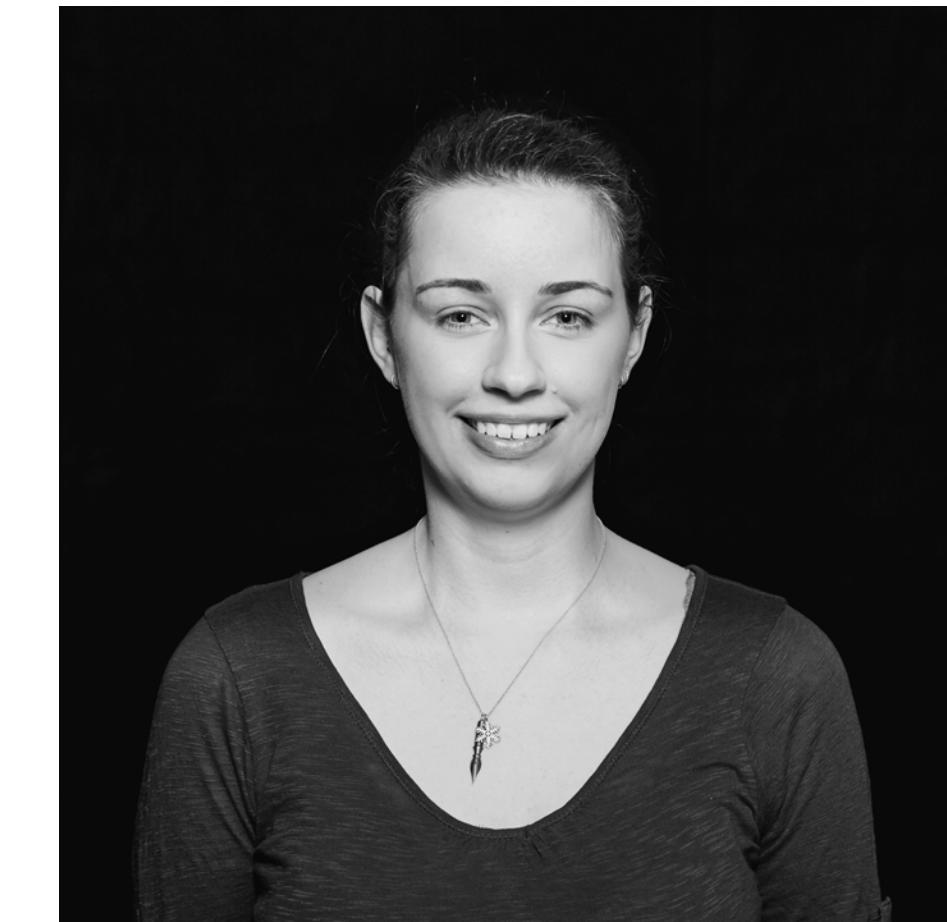


# QUESTIONS?

## COME TALK TO US!



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○ [merelyChristina](#)



ANNA  
○ [merelyAnna](#)